

SEQUENCE LISTING

<110> Gerald, Christophe P.G.
 Jones, Kenneth A.
 Bonini, James A.
 Borowsky, Beth

<120> DNA Encoding Mammalian Neuropeptide FF (NPFF) Receptors
 and Uses Thereof

<130> 1795/57155-A

<140>

<141>

<150> 09/161,113

<151> 1998-09-25

<160> 42

<170> PatentIn Ver. 2.0 - beta

<210> 1

<211> 1410

<212> DNA

<213> Rattus norvegicus

<400> 1

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cagaacggga gtgatgtgga gaccagcatg gcaaccagcc tcaccttctc ctccctactac 180
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aagatgagcg gcttggtgca gggcatgtcc gtgtctgcat cggttttcac actggtggcc 480
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aaggcgctgt tcaccatcgc ggtgatctgg gctctggcgc tgctcatcat gtgtccctcg 600
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 <213> Rattus norvegicus

<400> 2
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 20 25 30
 Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala
 35 40 45
 Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val
 50 55 60
 Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met
 65 70 75 80
 Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys
 85 90 95
 Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp
 100 105 110
 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser
 115 120 125
 Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys
 130 135 140
 Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Phe
 145 150 155 160
 Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser
 165 170 175
 Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp
 180 185 190
 Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro
 195 200 205
 Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile
 210 215 220

Tyr	Leu	Val	Pro	Leu	Ala	Leu	Ile	Val	Val	Met	Tyr	Val	Arg	Ile	Ala	225	230	235	240
Arg	Lys	Leu	Cys	Gln	Ala	Pro	Gly	Pro	Ala	Arg	Asp	Thr	Glu	Glu	Ala	245	250	255	
Val	Ala	Glu	Gly	Gly	Arg	Thr	Ser	Arg	Arg	Arg	Ala	Arg	Val	Val	His	260	265	270	
Met	Leu	Val	Met	Val	Ala	Leu	Phe	Phe	Thr	Leu	Ser	Trp	Leu	Pro	Leu	275	280	285	
Trp	Val	Leu	Leu	Leu	Leu	Ile	Asp	Tyr	Gly	Glu	Leu	Ser	Glu	Leu	Gln	290	295	300	
Leu	His	Leu	Leu	Ser	Val	Tyr	Ala	Phe	Pro	Leu	Ala	His	Trp	Leu	Ala	305	310	315	320
Phe	Phe	His	Ser	Ser	Ala	Asn	Pro	Ile	Ile	Tyr	Gly	Tyr	Phe	Asn	Glu	325	330	335	
Asn	Phe	Arg	Arg	Gly	Phe	Gln	Ala	Ala	Phe	Arg	Ala	Gln	Leu	Cys	Trp	340	345	350	
Pro	Pro	Trp	Ala	Ala	His	Lys	Gln	Ala	Tyr	Ser	Glu	Arg	Pro	Asn	Arg	355	360	365	
Leu	Leu	Arg	Arg	Arg	Val	Val	Val	Asp	Val	Gln	Pro	Ser	Asp	Ser	Gly	370	375	380	
Leu	Pro	Ser	Glu	Ser	Gly	Pro	Ser	Ser	Gly	Val	Pro	Gly	Pro	Gly	Arg	385	390	395	400
Leu	Pro	Leu	Arg	Asn	Gly	Arg	Val	Ala	His	Gln	Asp	Gly	Pro	Gly	Glu	405	410	415	
Gly	Pro	Gly	Cys	Asn	His	Met	Pro	Leu	Thr	Ile	Pro	Ala	Trp	Asn	Ile	420	425	430	

<210> 3
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 <212> DNA
 <213> Homo sapiens

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gccatgttca ttgtggccta tgcgctcacc ttctgtctct gcattgggtgg caacaccctg 180
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<211> 66
<212> PRT
<213> Homo sapiens

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20 25 30
Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val Ala Tyr Ala
35 40 45
Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val Cys Phe Ile
50 55 60
Val Leu
65

<210> 5
<211> 1302
<212> DNA
<213> Homo sapiens

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aatattacct atgtgaacta ctatcttcac cagcctcaag tggcagcaat cttcattatt 180
tcctactttc tgatcttctt tttgtgcatg atgggaaata ctgtggtttg ctttatttga 240
atgaggaaca aacatatgca cacagtcaact aatctcttca tcttaaacct ggccataagt 300
gatttactag ttggcatatt ctgcatgcct ataactctgc tggacaatat tatagcagga 360
tggccatttg gaaacacgat gtgcaagatc agtggattgg tccagggaat atctgtcgca 420
gcttcagtct ttacgttagt tgcaattgct gtagataggt tccagtgtgt ggtctaccct 480
tttaaaccac agctcactat caagacagcg tttgtcatta ttatgatcat ctgggtccta 540
gccatcacca ttatgtctcc atctgcagta atgttacatg tgcaagaaga aaaatattac 600
cgagtggagc tcaactccca gaataaaacc agtccagtct actggtgccg ggaagactgg 660
ccaaatcagg aatgaggaa gatctacacc actgtgctgt ttgccaacat ctacctggct 720
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gttctctaca caggcaggaa gaaccaggag cagtggcagc tgggtgtccag gaagaagcag 840
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tggactctaa tgatgtctct agactacgct gacctttctc caaatgaact gcagatcacc 960
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Asp Trp Pro Asn Gln Glu Met Arg Lys Ile Tyr Thr Thr Val Leu Phe
210 215 220

Ala Asn Ile Tyr Leu Ala Pro Leu Ser Leu Ile Val Ile Met Tyr Gly
225 230 235 240

Arg Ile Gly Ile Ser Leu Phe Arg Ala Ala Val Pro His Thr Gly Arg
245 250 255

Lys Asn Gln Glu Gln Trp His Val Val Ser Arg Lys Lys Gln Lys Ile
260 265 270

Ile Lys Met Leu Leu Ile Val Ala Leu Leu Phe Ile Leu Ser Trp Leu
275 280 285

Pro Leu Trp Thr Leu Met Met Leu Ser Asp Tyr Ala Asp Leu Ser Pro
290 295 300

Asn Glu Leu Gln Ile Ile Asn Ile Tyr Ile Tyr Pro Phe Ala His Trp
305 310 315 320

Leu Ala Phe Gly Asn Ser Ser Val Asn Pro Ile Ile Tyr Gly Phe Phe
325 330 335

Asn Glu Asn Phe Arg Arg Gly Phe Gln Glu Ala Phe Gln Leu Gln Leu
340 345 350

Cys Gln Lys Arg Ala Lys Pro Met Glu Ala Tyr Ala Leu Lys Ala Lys
355 360 365

Ser His Val Leu Ile Asn Thr Ser Asn Gln Leu Val Gln Glu Ser Thr
370 375 380

Phe Gln Asn Pro His Gly Glu Thr Leu Leu Tyr Arg Lys Ser Ala Glu
385 390 395 400

Lys Pro Gln Gln Glu Leu Val Met Glu Glu Leu Lys Glu Thr Thr Asn
405 410 415

Ser Ser Glu Ile
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<210> 7

<211> 1293

<212> DNA

<213> Homo sapiens

<400> 7

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cctgtggcgg ccattgttcat tgtggcctat gcgctcatct tcctgtcttg catgggtggc 180
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accgtcaccg gtgaggagca ccacttcatg gtggacgccc gcaaccgctc ctaccctctc 600
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<210> 8

<211> 430

<212> PRT

<213> Homo sapiens

<400> 8

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Gln Asn Gly Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe
      20                25                30

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Ser Ser Tyr Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val
      35                40                45

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Ala Tyr Ala Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val
      50                55                60

```

```

Cys Phe Ile Val Leu Lys Asn Arg His Met His Thr Val Thr Asn Met
      65                70                75                80

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Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys
      85                90                95

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Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp
      100                105                110

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Asn	Ala	Thr	Cys	Lys	Met	Ser	Gly	Leu	Val	Gln	Gly	Met	Ser	Val	Ser		
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	130					135					140						
Ile	Val	His	Pro	Phe	Arg	Glu	Lys	Leu	Thr	Leu	Arg	Lys	Ala	Leu	Val		
145					150					155					160		
Thr	Ile	Ala	Val	Ile	Trp	Ala	Leu	Ala	Leu	Leu	Ile	Met	Cys	Pro	Ser		
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Ala	Val	Thr	Leu	Thr	Val	Thr	Arg	Glu	Glu	His	His	Phe	Met	Val	Asp		
			180					185					190				
Ala	Arg	Asn	Arg	Ser	Tyr	Pro	Leu	Tyr	Ser	Cys	Trp	Glu	Ala	Trp	Pro		
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Glu	Lys	Gly	Met	Arg	Arg	Val	Tyr	Thr	Thr	Val	Leu	Phe	Ser	His	Ile		
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Tyr	Leu	Ala	Pro	Leu	Ala	Leu	Ile	Val	Val	Met	Tyr	Ala	Arg	Ile	Ala		
225					230					235					240		
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Ala	Asp	Pro	Arg	Ala	Ser	Arg	Arg	Arg	Ala	Arg	Val	Val	His	Met	Leu		
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Val	Met	Val	Ala	Leu	Phe	Phe	Thr	Leu	Ser	Trp	Leu	Pro	Leu	Trp	Ala		
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Leu	Leu	Leu	Leu	Ile	Asp	Tyr	Gly	Gln	Leu	Ser	Ala	Pro	Gln	Leu	His		
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Leu	Val	Thr	Val	Tyr	Ala	Phe	Pro	Phe	Ala	His	Trp	Leu	Ala	Phe	Phe		
305					310					315					320		
Asn	Ser	Ser	Ala	Asn	Pro	Ile	Ile	Tyr	Gly	Tyr	Phe	Asn	Glu	Asn	Phe		
				325					330					335			
Arg	Arg	Gly	Phe	Gln	Ala	Ala	Phe	Arg	Ala	Arg	Leu	Cys	Pro	Arg	Pro		
			340					345					350				
Ser	Gly	Ser	His	Lys	Glu	Ala	Tyr	Ser	Glu	Arg	Pro	Gly	Gly	Leu	Leu		
	355						360					365					
His	Arg	Arg	Val	Phe	Val	Val	Val	Arg	Pro	Ser	Asp	Ser	Gly	Leu	Pro		
	370					375					380						

Ser Glu Ser Gly Pro Ser Ser Gly Ala Pro Arg Pro Gly Arg Leu Pro
 385 390 395 400

Leu Arg Asn Gly Arg Val Ala His His Gly Leu Pro Arg Glu Gly Pro
405 410 415

Gly Cys Ser His Leu Pro Leu Thr Ile Pro Ala Trp Asp Ile
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<210> 9
<211> 23
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: primer/probe

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gyntwyrynn tnwsntggght ncc
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<210> 10
<211> 23
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: primer/probe

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<210> 11
<211> 25
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: primer/probe

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<210> 12
<211> 26
<212> DNA
<213> Artificial Sequence
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<220>

<223> Description of Artificial Sequence: primer/probe

<400> 12

atgtgctgca aggcgattaa gttggg

26

<210> 13

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

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26

<210> 14

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

<400> 14

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26

<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

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cggtgctctt cgcgcacatc tacc

24

<210> 16

<211> 60

<212> DNA

<213> Artificial Sequence

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<211> 53
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<210> 18
<211> 24
<212> DNA
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<400> 18
ctgctctgca tggtagggcaa cacc 24

<210> 19
<211> 21
<212> DNA
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<220>
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<400> 19
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<210> 20
<211> 65
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<400> 20
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atgcc 65

<210> 21
<211> 24
<212> DNA
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<223> Description of Artificial Sequence: primer/probe

<400> 21

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<210> 22

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

<400> 22

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24

<210> 23

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

<400> 23

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24

<210> 24

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 24

tgacggcgat ggtgacgagc gcc

23

<210> 25

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 25

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<210> 26

<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer/probe

<400> 26
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<210> 27
<211> 36
<212> DNA
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<210> 28
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<210> 29
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<210> 30
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<210> 31
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<220>
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<400> 31
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<210> 32
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<400> 32
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<210> 33
<211> 25
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<400> 33
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<210> 34
<211> 25
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<400> 34
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<210> 35
<211> 24

<212> DNA
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<400> 35
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24

<210> 36
<211> 25
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<400> 36
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25

<210> 37
<211> 37
<212> DNA
<213> Artificial Sequence

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<400> 37
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37

<210> 38
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer/probe

<400> 38
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36

<210> 39
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
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<400> 39
ctcctactac caacactcct ctcc

24

<210> 40
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<212> DNA
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<220>
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19

<210> 41
<211> 27
<212> DNA
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<220>
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<400> 41
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27

<210> 42
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer/probe

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25